

What is claimed is:

1. (Currently Amended) A process for producing an optical beam forming device which has a plurality of lens means which are arranged offset to one another in at least one direction on at least one optically functional interface, wherein the beam forming device is assembled from at least two optically functional ~~modules~~ components, each of the at least two optically functional ~~modules~~ components on a first optically functional interface having at least one first cylinder lens means and on the second optically functional interface which is essentially opposite the first at least one second cylinder lens means with a cylinder axis which is aligned essentially perpendicular to the cylinder axis of the first cylinder lens means which is located on the first interface.

2. (Currently Amended) The process as claimed in claim 1, wherein at least two optically functional ~~modules~~ components are assembled such that the cylinder axes of the first cylinder lens means are oriented at least partially parallel to one another on a first optically functional interface of the beam forming device.

3. (Currently Amended) The process as claimed in claim 1, wherein at least two optically functional ~~modules~~ components are assembled such that the cylinder axes of the second cylinder lens means are oriented at least partially parallel to one another on a second optically functional interface of the beam forming device.

4. (Currently Amended) The process as claimed in claim 1 wherein at least two optically functional ~~modules~~ components of at least one cylinder lens array with a plurality of first cylinder lens means on the first side and a plurality of second cylinder lens means on a second side opposite the first are cut.

5. (Previously Presented) The process as claimed in claim 4, wherein the cylinder lens array is cut by planes which are oriented essentially parallel to the lengthwise axes of the first cylinder lens means.

6. (Previously Presented) The process as claimed in claim 4, wherein the cylinder lens array is cut by planes which extend through the joint edges of adjacent first cylinder lens means and which orthogonally intersect the cylinder axes of the second cylinder lens means.

7. (Currently Amended) The process as claimed in claim 1, wherein lengthwise sides of the optically functional ~~modules~~ components are contoured at least in sections by segments being cut out of the lengthwise sides.

8. (Currently Amended) The process as claimed in claim 7, wherein the lengthwise sides are contoured at least in sections such that the joining of at least two optically functional ~~modules~~ components takes place such that the second cylinder lens means are located offset to one another at least in one direction.

9. (Currently Amended) The process as claimed in claim 7, wherein segments of the same size are cut out of the lengthwise sides of the optically functional ~~m modules~~ components.

10. (Currently Amended) The process as claimed in claim 7, wherein segments with cross sections which have an ~~essentially~~ triangular outline are cut out of the lengthwise sides of the optically functional ~~modules~~ components.

11. (Currently Amended) The process as claimed in claim 1, wherein the optically functional ~~modules~~ components are joined in such a way that on the second interface of the beam forming device ~~an essentially~~ a hexagonally packed arrangement of the second cylinder lens means is formed.

12. (Currently Amended) The process as claimed in claim 1, wherein the optically functional ~~modules~~ components are cut out of the cylinder lens array and contoured by means of ultrasound.

13. (Cancelled)

14. (Cancelled)

15. (Currently Amended) The process as claimed in claim 1, wherein the optically functional ~~modules~~ components are cemented to one another at least in sections.

16. (Currently Amended) The process as claimed in claim 1, wherein the optically functional ~~modules~~ components are soldered to one another at least in sections.

17. (Previously Presented) A beam forming device which has a plurality of lens means which are arranged offset to one another in at least one direction on at least one optically functional interface, wherein the beam forming device is produced by means of a process as claimed in claim 1.

18. (Currently Amended) The beam forming device as claimed in claim 17, wherein the beam forming device comprises cylinder lens means which are shaped convexly and/or concavely and which have spherical ~~and/or~~ or aspherical jacket surfaces.

19. (Currently Amended) The beam forming device as claimed in claim 17, wherein the lens means are arranged ~~essentially~~ hexagonally tightly packed on at least one optically functional interface of the beam forming device .

20. (Currently Amended) The beam forming device as claimed in claim 1, wherein the outer contour of the beam forming device (\pm) is essentially round, rectangular, square or hexagonal.

21. (Previously Presented) The beam forming device as claimed in claim 1, wherein the beam forming device consists of glass, silica glass, or plastic.